

SAMPLING AND TESTING GUIDE FOR ACCEPTANCE AND VERIFICATION

MATERIALS/TESTS	ITEM NO. (See Note 5)	ACCEPTANCE SAMPLING & TESTING	SAMPLING & TESTING FOR SMALL QUANTITIES	VERIFICATION SAMPLING & TESTING (See Note 4)	SAMPLE LOCATION	SAMPLE SIZE	REMARKS
01. CONCRETE (PAVEMENT, STRUCTURAL AND MISCELLANEOUS)							
A. Cement (See Note 1)	701	Certificate of Compliance. Check samples of 1 for approximately every 5,000 yd ³ of concrete placed or as required for control	If concrete is used for incidental construction, Certificate of Compliance	N/A	Weigh hopper or in the feed line immediately in advance of the hopper	Approximately 30 lbs.	
B. Aggregate (See Note 1)	703.01						
(1) Fine & Coarse Aggregate	703.02						
(a) Gradation		1 for approximately every month or 1,000 yd ³ of concrete placed or as required for control	(See Note 2)	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	(See Note 3)	Approximately 50 lbs. (C.A.) 10 lbs. (F.A.)	
(b) Specific Gravity		When aggregate changed or as required for source information	N/A	N/A	(See Note 3)	Approximately 10 lbs. (C.A.) 5 lbs. (F.A.)	
(c) Moisture		As required for information	N/A	N/A	(See Note 3)	5 lbs. (C.A.)	
(2) Coarse Aggregate							
(a) Clay Lumps and Friable Particles; L.A. Abrasion; and Flat and Elongated Pieces		When aggregate changed or approximately once a year	N/A	N/A	(See Note 3)	Approximately 200 lbs.	
(3) Fine Aggregate							
(a) Sand Equivalent		If required, 1 for approximately every month or 3,000 yd ³ of concrete placed or as required for control	(See Note 2)	When required, 1 per 5,000 yd ³	(See Note 3)	Approximately 2 lbs.	
(b) Clay Lumps and Friable Particles; Organic Impurities; and L.A. Abrasion on Parent Material for Manufactured Fines Only		When aggregate changed or approximately once a year	N/A	N/A	(See Note 3)	Approximately 50 lbs.	
(c) Complete		When new source is proposed for use or when aggregate changed	N/A	N/A	Stockpile / (See Note 3)	Approximately 200 lbs. (C.A.) 100 lbs. (F.A.)	
C. Water (See Note 1)	712.01	1 per source. (Obviously suitable source as drinking water requires no sampling)	N/A	N/A	At point of use	Approximately 3 gals. - Use glass or plastic jugs w/ lined sealed lids	

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01. CONCRETE (PAVEMENT, STRUCTURAL AND MISCELLANEOUS) CONT'D							
D. Admixture	711	When admixture is initially used in state work, Certificate of Compliance with test results	If previously used in other state work, Certificate of Compliance	N/A			
E. Concrete Mixture - Pavements	411						
(1) Compressive Strength (28 days, 7 days), when required by Central Laboratory	601	1 set for approximately 300 yd ³ of concrete placed for concrete specified by class; 1 set for each 150 yd ³ and fractional thereof placed on any day or as required for acceptance for concrete <u>specified by strength</u>	1 set per day of pour	1 per project	At point concrete deposited in the work	1 set of 2 - 6"x12" cylinders for each test age	
(2) Flexural Strength		1 set per half day or as required for control	1 set per half day of pour or as required for control	1 per project	At point concrete deposited in the work	1 set of 2 - 6"x6"x 21" beams for each test age	
(3) Yield, Cement Factor, and Unit Weight (See Note 1)		As necessary to assure accuracy of mix design or as necessary for control. When yield test used for payment, 1 per project		When yield test used for payment, 1 per project	At point concrete deposited in the work		
(4) Slump Test		When test specimen are fabricated or when consistency or uniformity is questionable	When test specimen are fabricated or when consistency or uniformity is questionable	1 per project (Observation)	At point concrete deposited in the work		
(5) Entrained Air		When entrained air is specified, 1 approximately every 300 yd ³ or as necessary for control or as required for control.	N/A	When entrained air is specified, 1 per project	At point concrete deposited in the work		
F. Concrete Mixture - Bridges & Major Structures (R.C.B., P.C.C., Arch Culverts, & Retaining Walls)	503 504 507 508 511 601						
(1) Compressive Strength (28 days, 7 days)		1 set for approximately 300 yd ³ of concrete placed for concrete specified by class; 1 set for each 150 yd ³ and fractional thereof placed on any day or as required for acceptance for concrete <u>specified by strength</u>	1 set per day of pour	1 per project	At point concrete deposited in the work	1 set of 2 - 6"x12" cylinders for each test age	

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(2) Yield, Cement Factor, and Unit Weight (See Note 1)	503 504 507 508 511 601	As necessary to assure accuracy of mix design or as necessary for control. When yield test used for payment, 1 per project	N/A	When yield test used for payment, 1 per project	At point concrete deposited in the work		
(3) Slump Test		When test specimen fabricated or when consistency or uniformity is questionable	When test specimen are fabricated or when consistency or uniformity is questionable	1 per project (Observation)	At point concrete deposited in the work		
(4) Entrained Air		If entrained air is specified, 1 approximately every 300 yd ³ or as necessary for control or as required for control	N/A	When entrained air is specified, 1 per project	At point concrete deposited in the work.		
G. Concrete Mixture - Miscellaneous Concrete (Concrete for Incidental Construction)	601 604 607 608 609 610 621 622 623 640						
(1) Compressive Strength (28 days, 7 days)		1 set for each day when volume exceeds 25 yd ³ or as required for acceptance for concrete specified by strength	If concrete is less than 25 yd ³ , 1 per accumulative 100 yd ³ . None if total days run less than 25 yd ³	1 per project. When total days run less than 25 yd ³ , none	At point concrete deposited in the work	1 set of 2 - 6"x12" cylinders for each test age	
(2) Yield, Cement Factor, and Unit Weight (See Note 1)		As necessary to assure accuracy of mix design or as necessary for control	N/A	If yield test used for payment, one (1) per project	At point concrete deposited in the work		
(3) Slump Test		When test specimen are fabricated or when consistency or uniformity is questionable	N/A	1 per project (Observation)	At point concrete deposited in the work		
(4) Entrained Air		When entrained air is specified, 1 approximately every 300 yd ³ or as required for control	N/A	When entrained air is specified, 1 per project	At point concrete deposited in the work		

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02. CEMENT TREATED PERMEABLE BASE	309						
A. Cement (See Note 1)	701	Accepted by manufacturer's or supplier's Certificate of Compliance supplemented with check testing. Check sample for approximately every 5,000 yd ³ of concrete placed or as required for control	N/A	N/A	Weigh hopper or in the feed line immediately in advance of the hopper.	30 lbs.	
B. Aggregate (See Note 1)	703.02	1 per day or as required for control	N/A	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	(See Note 3)	Approximately 250 lbs.	
03. ASPHALT CONCRETE	301, 401						
A. Asphalt Binder	702.01	1 per source, approximately every 6 months	If less than 250 tons of asphalt concrete per project, Certificate of Compliance with test results	1 per project minimum	Plant line	2 qts.	
B. Aggregate	703.09						
(1) Gradation		1 per approximately every 1,000 tons of asphalt concrete	If less than 150 tons per project, visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Plant conveyor belt, stockpile, or ignition oven	Approximately 10 lbs.	
(2) Sand Equivalent		1 per approximately every 2,500 tons of asphalt concrete	If less than 150 tons per project, none	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Plant conveyor belt or stockpile	Approximately 10 lbs.	
(3) Los Angeles Abrasion, Flat & Elongated Pieces, Absorption		1 per year per source, minimum	N/A	1 per year per source	Plant conveyor belt or stockpile	Approximately 30 lbs.	
(4) Complete Aggregate Test		When new source is proposed for use or when aggregate changed	N/A	When new source is proposed for use or when aggregate changed	Plant conveyor belt/ stockpile	Approximately 200 lbs.	
C. Uncompacted AC Mixture For Specific Gravity	301, 401	1 per approximately every 500 tons of asphalt concrete, minimum 1 per day	If less than 150 tons per project, none.	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - From roadway in accordance with ASTM D979 and AASHTO T168	Approximately 7 lbs.	
D. Uncompacted AC Mixture For Asphalt Content & Design Check	301, 401	1 per approximately every 7,500 tons of asphalt concrete	If less than 150 tons per project, none	1 per project minimum	Plant - Off truck bed	Approximately 40 lbs.	
E. Compacted AC Cores	301, 401	1 per approximately every 250 tons of asphalt concrete, minimum 3 per day	If less than 150 tons per project, none.	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - Pavement	4 in. diameter cores	

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04. PLANT MIX GLASSPHALT CONCRETE BASE COURSE	312	Same as Asphalt Concrete					
05. TACK COAT	407 702.04	1 per source, approximately every 3 months	If less than 250 tons of asphalt concrete per project, Certificate of Compliance with test results	1 per project minimum	Supplier's Plant - Storage tank before dilution	1 gal.	
06. SLURRY SEAL	404						
A. Asphalt Emulsion	702.04	1 per project	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Storage tank at jobsite	2 gals	
B. Aggregate	703.11						
(1) Gradation		1 per approximately every 20,000 yd ² slurry seal	If less than 2,500 yd ² per project, visual inspection.	1 per project minimum	Jobsite	Approximately 10 lbs.	
(2) Sand Equivalent		1 per approximately every 50,000 yd ² slurry seal	If less than 2,500 yd ² per project, none	1 per project minimum	Jobsite	Approximately 5 lbs.	
07. CUT SUBGRADE	203						
A. Gradation, Sand Equivalent, Proctor	203	1 per soil type	If less than 2500 ft ² , Certificate of Compliance	1 per project	Jobsite - On roadbed	250 lbs	
B. Compaction (See Note 6)		1 per soil type per lift per 500 lin. ft. per lane	If less than 2500 ft ² , visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	
08. EMBANKMENT FILLS & IMPORT BORROW	203						
A. Gradation, Sand Equivalent, Proctor	203	1 per soil type, approximately every 1,500 yd ³	If less than 250 yd ³ , Certificate of Compliance	1 per project	Jobsite - On roadbed	250 lbs	
B. Compaction Below 2.5 ft. (See Note 6)		1 per lift per 1,000 yd ²	If less than 1,000 yd ² , visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	
C. Compaction Above 2.5 ft. (See Note 6)		1 per lift per 500 lin. ft. per lane	If less than 500 lin. ft. per lane, visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	

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09. STRUCTURAL BACKFILL	206						
A. Gradation, Sand Equivalent, Proctor	703.20	1 per approximately every 1,500 yd ³ per type	If less than 250 yd ³ of type B backfill, Certificate of Compliance. N/A for Type A backfill	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	250 lbs.	
B. Compaction (See Note 6)	206	1 per lift per 500 ft ²	If less than 500 ft ² , per use for type B backfill, none. N/A for type A backfill	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	
10. TRENCH BACKFILL (INCLUDING BED COURSE)	206						
A. Gradation, Sand Equivalent, Proctor, Resistivity & pH as Required	703.21	1 per approximately every 1,500 yd ³ per type	If less than 100 yd ³ traffic area, or if less than 250 yd ³ non-traffic area, Certificate of Compliance	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	250 lbs.	
B. Compaction (See Note 6)	206	1 per lift per 300 lin. ft	1 per traffic crossing per lift. If less than 300 lin. ft. for other areas, visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	
11. AGGREGATE BASE COURSE	304						
A. L.A. Abrasion, Plasticity Index, Flat & Elongated Pieces, Crushed Particles	703.06	1 per material source	If less than 250 yd ³ (or 300 tons) per project, Certificate of Compliance	1 per material source	Jobsite - On roadbed	100 lbs.	
B. Gradation, Sand Equivalent, Proctor	703.06	1 per approximately every 1,500 yd ³ (or 2,000 tons) per material type but not less than 1	If less than 250 yd ³ (or 300 tons) per project, Certificate of Compliance	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	250 lbs.	
C. Compaction (See Note 6)	304	1 per lift per 1,000 ft ²	If less than 1,000 ft ² per project, visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	

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12. AGGREGATE SUBBASE	305						
A. Plasticity Index Gradation, Sand Equivalent, Proctor	703.17	1 per approximately every 1,500 yd ³ (or 2,000 tons), but not less than 1	If less than 250 yd ³ (or 300 tons) per project, Certificate of Compliance	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	250 lbs.	
B. Compaction (See Note 6)	305	1 per lift per 1,000 ft ²	If less than 1,000 ft ² per lift per project, visual inspection	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	N/A	
13. UNTREATED PERMEABLE BASE	306						
A. Primer For Permeable Base Course	420 702.04	1 per source, approximately every 3 months (See Note 1)	If less than 500 gals. per project, Certificate of Compliance with test results	1 per project minimum	Storage tank before dilution	1 gal.	
B. Coarse Aggregate and Filler	703.04						
(1) Gradation, L.A. Abrasion, Flat & Elongated Pieces		1 per material source	If less than 500 tons per project, Certificate of Compliance	1 per material source	Jobsite - On roadbed	150 lbs.	
(2) Gradation		1 per approximately every 2,500 yd ³ (or 3,000 tons) per material type	If less than 500 tons per project, Certificate of Compliance	1 to 1 for first 5 acceptance tests, 1 per 10 thereafter	Jobsite - On roadbed	60 lbs.	
14. PAVING FABRIC	412						
A. Asphalt Binder	702.01	Certificate of Compliance with test results (See note 1)	N/A	N/A			
B. Paving Fabric	716.04	Certificate of Compliance and Certified test results	N/A	N/A			
15. UNDERDRAINS	605						
A. Perforated/Unperforated Pipe	706.12	Certificate of Compliance	N/A	N/A			
B. Permeable Separator	716.03	Certificate of Compliance	N/A	N/A			
C. Crushed Rock	605 703.04						
(1) Gradation, L.A. Abrasion		1 per 3,000 tons	If less than 500 tons per project, Certificate of Compliance	1 per project	Jobsite - On roadbed	150 lbs.	
16. CURING COMPOUND	411, 503 711.01	Certificate of Compliance	N/A	N/A			
17. JOINT FILLER	411, 503 705.01	Certificate of Compliance	N/A	1 per project		1 ft. x 2 ft.	
18. JOINT SEALER	411, 503 705.04	Certificate of Compliance with test results	N/A	N/A			

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19. WATERPROOFING ASPHALT	503 705.06	Certificate of Compliance with test results	N/A	N/A			
20. WATERPROOFING PRIMER	503 705.06	Certificate of Compliance with test results	N/A	N/A			
21. ASPHALT SATURATED FABRIC	503 705.06	Certificate of Compliance with test results	N/A	N/A			
22. TRAFFIC PAINT	629 755.01	Certificate of Compliance with test results	N/A	N/A			
23. RUBBER STOP	503 705.07	Certificate of Compliance	N/A	N/A			
24. METAL GUARDRAIL	606 710.04	Certificate of Compliance and Certified test results	N/A	N/A			
25. GUARDRAIL HARDWARE	710.08	Certificate of Compliance and Certified test results	N/A	N/A			
26. BRIDGE RAILINGS AND POST	507 710.09, 710.10	Certificate of Compliance and Certified test results	N/A	N/A			
27. NEOPRENE BEARING PAD	503 712.09	Certificate of Compliance and Certified test results	N/A	N/A			
28. VITRIFIED CLAY PIPE	625, 706.08	Certificate of Compliance	N/A	N/A			
29. REINFORCED CONCRETE GUARDRAIL POST	606 710.06	Certificate of Compliance and Certified test results	N/A	N/A			
30. PAVEMENT MARKERS	629 755.02	Certificate of Compliance with Certified test results and 1 sample per batch	If less than 1,000 markers per project, Certificate of Compliance with Certified test results	1 for every 10,000 or less or 1 per batch	Jobsite or source	10 for non-reflective markers and 6 for reflective markers	
31. PAVEMENT MARKER EPOXY	629 755.03	Certificate of Compliance	N/A	N/A			
32. PAVEMENT MARKER BITUMINOUS ADHESIVE	629 755.03	1 per lot	If less than 1,000 markers per project, Certificate of Compliance with test results	1 per project minimum		1/2 box per lot	
33. PLASTIC CONDUIT	622, 625 706.09, 712.27	Certificate of Compliance and Certified test results	N/A	N/A			
34. METAL CONDUIT	622 712.27						
A. Steel Conduit		Certificate of Compliance and Certified test results	N/A	N/A			
B. Liquid-tight Flexible Metal Conduit and Fittings		Certificate of Compliance and Certified test results	N/A	N/A			
C. Rigid Steel Conduit PVC Coated		Certificate of Compliance and Certified test results	N/A	N/A			
35. SEED	619, 641	Certificate of Compliance and seed specifications	N/A	N/A			
36. ELECTRICAL CONDUCTOR	622, 760.04	Certificate of Compliance and manufacturer's specifications	N/A	N/A			

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37. GEOSYNTHETICS	412, 605 648, 716	Certificate of Compliance	N/A				
38. THERMOPLASTIC	629 755.05	Certificate of Compliance with test results	N/A	N/A			
39. PAVEMENT MARKING TAPE	629 755.04	Certificate of Compliance with test results	N/A	N/A			
40. WOVEN FENCE	607 710.02	Certificate of Compliance and Certified test results	N/A	N/A			
41. PLANTING SOIL A. Designation (USDA Classification)	617						
		1 per source of planting soil	If less than 1,000 ft ² , visual inspection	N/A	Jobsite	50 lbs.	
42. PRESERVATIVES FOR TIMBER	502 714.02	Certificate of Compliance and manufacturer's specifications	N/A	N/A			
43. CONCRETE PIPE	603 706.02 706.17	1 joint length for approximately every 50 joint lengths for 3 edge bearing load test. Inspected at plant and released by Central laboratory	If less than 100 lin. ft. per project, Certificate of Compliance		Strength tests usually performed at plant		
44. CORRUGATED METAL PIPE	603 707.02 707.03	Visual, accepted by manufacturer's or supplier's Certificate of Compliance. Inspected at plant and released by Central Laboratory		N/A	At fabrication point or at time of use		
45. REINFORCING STEEL	504 602 610 709.01	Sample each size for each brand and additional samples as necessary. Approved together with fabricator's certified analysis	If less than 200 lbs. per project, Certificate of Compliance		Jobsite or source	3 specimen 36" long	
46. WIRE MESH REINFORCEMENT	602 709.01	Each 10 tons or fraction thereof	If less than 200 lbs. per project, Certificate of Compliance		Jobsite	3 feet x 3 feet	
47. WIRE ROPE OR CABLE	709.02	Certificate of Compliance with Certified test results and 1 sample per type per lot	1 set per project	1 set per project	Jobsite	2 strands 4-1/2 ft. long	
48. STRUCTURAL PLATE ARCHES	707.08	Certificate of Compliance		N/A			
49. PRE-STRESSED STRANDS	504 709.03	Certificate of Compliance with Certified test results and 1 sample per type per lot	1 set per project	1 set per project	Jobsite	2 strands 4-1/2 ft. long	
50. STEEL PRODUCTS	602.02	Certificate of Compliance and Certified test results	N/A	N/A			
51. BARB WIRE	607 710.01	Certificate of Compliance	N/A	N/A			
52. BOLTS & HARDWARE	713.01 713.03 713.04	Certificate of Compliance and Certified test results	N/A	N/A			
53. BRICK	704	Certificate of Compliance	N/A	N/A			

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54. CHAIN LINK FENCE	607 710.03						
A. Fabric		Certificate of Compliance with Certified test results and 1 sample per lot or per project	If less than 200 ft ² per project, Certificate of Compliance with Certified test results	1 sample per project or 1 sample per lot	Jobsite	3 ft. length, full height	
B. Posts		Certificate of Compliance with Certified test results and 1 sample per lot or per project	If less than 30 lin. ft. per project, Certificate of Compliance with Certified test results	1 sample per project or 1 sample per lot	Jobsite	12 inch length each end	
C. Tension Wire		Certificate of Compliance with Certified test results and 1 sample per lot or per project	If less than 100 lin. ft. per project, Certificate of Compliance with Certified test results	1 per sample per project or 1 sample per lot	Jobsite	3 ft. length	
D. Tie Wire		Certificate of Compliance with Certified Test results and 1 sample per lot or per project	If less than 25 lbs. per project, Certificate of Compliance with Certified test results	1 sample per project or 1 sample per lot	Jobsite	3 ft. length	
E. Fittings		Certificate of Compliance with Certified test results	N/A	N/A			